

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					

Root Cause			FAULT CATEGORY							
Environment	☐	No Re-verification	☐	Pressure/Forced	☐	Temperature/Cure	☐	Power Loss/Surge	☐	Positioned Wrong
Design	☐	Operator	☐	Bending	☐	Set-up	☐	Folio/Program	☐	Outside Dimensions
Doc/Data	☐	Offset/Setup	☐	Centre Not Concentric	☐	BOM/Route	☐	Grain	☐	Over/Under tolerance
Equip/Tooling	☐	Supplier	☐	Cracks	☐	Broken/Damage/Defect	☐	Weld	☐	Part Incorrect
Handling/Pre	☐	Training	☐	Crimp/Kink/Ripple/Wave	☐	Inspection Incomplete/Unqualified	☐	Wrong Stock Pulled	☐	Part Lost/Missing
Material	☐	Use for Testing	☐	Cuffs	☐	Contamination	☐	Out of Sequence	☐	Part Moved
Internal Transport	☐	Poor Information	☐	Crushing	☐	Countersink	☐	Off-set	☐	Drawing
Tribal Knowledge	☐	Rushing	☐	Heat Treat	☐	Cut Too Short	☐	Mislabeled	☐	Finish
LOA	☐	Product Improvement	☐	Wave/Twist in Tube	☐	Instructions Incomplete/Unclear	☐	Fit/Function	☐	Misread
Substation	☐	Process Improvement	☐	Marks/Chatter	☐	Drill Holes	☐	Misaligned/off center	☐	Turning Sequence
Past Expiry Date	☐	Manufacturing Process	OTHER :							
Misidentified	☐	Past Due								

Work Order ID 137585***137585***

Page 2

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Item ID: D412-742-013

Accept

N900040100Setup Start ***NS1***

Revision ID:

Stop ***NS2***

Item Name: Skidtube Fits LH or RH High Gear, DART (Apical) Tri-Bag Float Compatible

Start Date: 10/7/2015 Start Qty: 1.00

1

Cust Item ID:

Required Date: 10/28/2015 Req'd Qty: 1.00

1

Customer:

Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____

Run Start ***NR1***

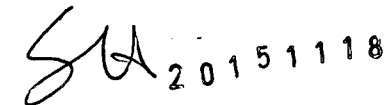
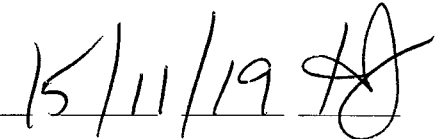
QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
130	Packaging	0.00							
130									
Packaging	Memo	0.00							
Packaging	Identify and pack for shipping as per PPP D412-742-013 Location: _____								
140	QC21- Final Inspection - Work Order Release	0.00							
140									
QC	Memo	0.00							
Quality Control									



NOV 18 2015



DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS <table style="width:100%; border: none;"> <tr> <td style="border: none;">Skid-tube ☐</td> <td style="border: none;">Cross tube ☐</td> <td style="border: none;">Water Jet ☐</td> <td style="border: none;">Engineering ☐</td> </tr> <tr> <td style="border: none;">Machining ☐</td> <td style="border: none;">Small Fab ☐</td> <td style="border: none;">Prod. Eng. Coord. ☐</td> <td style="border: none;">Quality ☐</td> </tr> <tr> <td style="border: none;">Thermoforming ☐</td> <td style="border: none;">Finishing ☐</td> <td style="border: none;">Rec/Store/Packaging ☐</td> <td style="border: none;">Other ☐</td> </tr> <tr> <td style="border: none;">Large Fab ☐</td> <td style="border: none;">Composite ☐</td> <td style="border: none;">Supplier ☐</td> <td></td> </tr> </table>						Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐	
Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐																						
Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐																						
Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐																						
Large Fab ☐	Composite ☐	Supplier ☐																							
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval																		
Description Work Order Deviation				Disposition				Completed By																	
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Root Cause		FAULT CATEGORY																							
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐	OTHER : ☐																			

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Work Order ID: 137585

137585

Parent Item: D412-742-013

D412-742-013

Parent Item Name: Skidtube Fits LH or RH High Gear, DART (Apical) Tri-Bag Float Compatible

Start Date: 10/7/2015

Required Date: 10/28/2015

Start Qty: 1.00

Required Qty: 1.00

Comments:

IPP Rev: A05.10.13New Issue KJ/JLM
 IPP Rev:B 06-06-08 As per DSI9336 JLM IPP RevC
 07-12-03 ECN 1072 DD verified by:JLM
 IPP Rev:D 08-09-08 ecn 08-510 DD verified by:EC
 IPP Rev:E 09-01-23 as per DSI9441 DD verified by:EC IPP RevF: add
 AN4C7A DD 10.01.13 verified by:EC IPP Rev:G 11.11.01 as per
 DSI9517 REV.B DD verified by:EC IPP rev:H 12.01.12 PER IIN
 REV.E DD VERF: IPP Rev:I add AN4C7A DD 12.03.14
 verified by:EC

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
AN4C47A *AN4C47A* Bolt	DAS 38 9-89	Purchased	No			110	Each	44.0000	4	4			DAS 26 9-89
				<u>Location</u>				<u>Loc Qty</u>					<u>Loc Code</u>
				FG				10					
				122491				10					
				ST312A				20					
				m132879				20					
				ST341				14					
				m132717				3					
				m132795				11					
D412-742-043 *D412-742-043*	DAS 38 9-89	Manufactured	No			110	Each	0.0000	1	1			DAS 26 9-89
Repl. Skidtube Fits LH or RH, High Gear, DART (Apical) Tri-Bag Float Comp. D2571		Manufactured	No			110	Each	12.0000	1	1			
D2571 Saddle, Fwd, Out	DAS 38 9-89												
				<u>Location</u>				<u>Loc Qty</u>					<u>Loc Code</u>
				ST397				8					
				135925				8					
				ST405				4					
				119178				4					

OCT 21 2015

DAS
26
9-89

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Work Order ID: 137585

137585

Parent Item: D412-742-013

D412-742-013

Parent Item Name: Skidtube Fits LH or RH High Gear, DART (Apical) Tri-Bag Float Compatible

Start Date: 10/7/2015

Required Date: 10/28/2015

Start Qty: 1.00

Required Qty: 1.00

D2572

DAS
36
9-89

Manufactured No

110

Each

19.0000

1

1

D2572

Saddle, Fwd, In

DAS
26
9-89

Location

Loc Qty

Loc Code

ST397

15

131069

1

135926

14

ST405

4

119179

4

D2573

DAS
36
9-89

Manufactured No

110

Each

11.0000

1

1

D2573

Saddle, Aft, Out

DAS
26
9-89

Location

Loc Qty

Loc Code

ST398

7

135927

7

ST405

4

119180

4

D2574

DAS
36
9-89

Manufactured No

110

Each

20.0000

1

1

D2574

Saddle, Aft, In

DAS
26
9-89

Location

Loc Qty

Loc Code

ST398

16

135070

2

135928

14

ST405

4

119181

4

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Work Order ID: 137585

137585

Parent Item: D412-742-013

D412-742-013

Parent Item Name: Skidtube Fits LH or RH High Gear, DART (Apical) Tri-Bag Float Compatible

Start Date: 10/7/2015

Required Date: 10/28/2015

Start Qty: 1.00

Required Qty: 1.00

D2876

Manufactured No

110

Each

21.0000

2

2

D2876

Saddle Spacer

DAS
38
9-89

**

DAS
26
9-89

Location

Loc Qty

Loc Code

ST013

21

135443

21

D2877

Manufactured No

110

Each

14.0000

2

D2877

Saddle Spacer

DAS
38
9-89

**

DAS
26
9-89

Location

Loc Qty

Loc Code

ST013

10

135560

10

ST025A

4

128495

4

D3403-1

Manufactured No

110

Each

39.0000

8

8

D3403-1

Bushing

DAS
38
9-89

**

DAS
26
9-89

Location

Loc Qty

Loc Code

ST034

32

134645

20

135435

12

ST037

7

129784

7

D3403-5

Manufactured No

110

Each

19.0000

8

8

D3403-5

Bushing

DAS
38
9-89

**

DAS
26
9-89

Location

Loc Qty

Loc Code

ST035

19

133154

1

135522

18

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Work Order ID: 137585

137585

Parent Item: D412-742-013

D412-742-013

Parent Item Name: Skidtube Fits LH or RH High Gear, DART (Apical) Tri-Bag Float Compatible

Start Date: 10/7/2015

Required Date: 10/28/2015

Start Qty: 1.00

Required Qty: 1.00

D2747

Manufactured No

110

Each

152.0000

4

4

D2747

DAS
38
9-89

Set Screw

DAS
26
9-89

Location

Loc Qty

Loc Code

ST010

52

134779

52

ST012a

100

131867

50

136566

50

4x

D3533-1

Manufactured No

110

Each

92.0000

2

2

D3533-1

DAS
36
9-89

Set Screw

DAS
26
9-89

Location

Loc Qty

Loc Code

ST041

36

134778

36

ST048

6

128448

6

ST051A

50

136509

50

2x

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Work Order ID: 137585

137585

Parent Item: D412-742-013

D412-742-013

Parent Item Name: Skidtube Fits LH or RH High Gear, DART (Apical) Tri-Bag Float Compatible

Start Date: 10/7/2015

Required Date: 10/28/2015

Start Qty: 1.00

Required Qty: 1.00

AN4C6A

Purchased

No

110

Each

321.0000

16

16

AN4C6A

DAS
38
9-89

Bolt

DAS
26
9-89



Location

Loc Qty

Loc Code

FG

14

103344

4

121657

10

ST312A

104

m132853

104

ST325A

200

m132930

200

ST345

3

m131410

3

flex 15

AN4C53A

Purchased

No

110

Each

82.0000

4

4

AN4C53A

DAS
38
1-89

BOLT

DAS
26
9-89



Location

Loc Qty

Loc Code

ST312A

50

m132795

50

ST340

32

m132879

32

CA

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Work Order ID: 137585

137585

Parent Item: D412-742-013

D412-742-013

Parent Item Name: Skidtube Fits LH or RH High Gear, DART (Apical) Tri-Bag Float Compatible

Start Date: 10/7/2015

Required Date: 10/28/2015

Start Qty: 1.00

Required Qty: 1.00

AN4C52A

Purchased

No

110

Each

49.0000

4

4

AN4C52A

DAS
38
9-89

Bolt

**

DAS
26
9-89



Location

Loc Qty

Loc Code

FG	5	
122518	5	
ST312A	30	
M132674	15	
M133091	15	
ST340	12	
M132381	9	
M132522	3	
ST341	2	
M132169	2	

AN6C12A

Purchased

No

110

Each

46.0000

8

8

AN6C12A

DAS
38
9-89

Bolt

**

DAS
26
9-89



Location

Loc Qty

Loc Code

ST286A	42	
M132763	42	
ST335	4	
M132317	4	

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Work Order ID: 137585

137585

Parent Item: D412-742-013

D412-742-013

Parent Item Name: Skidtube Fits LH or RH High Gear, DART (Apical) Tri-Bag Float Compatible

Start Date: 10/7/2015

Required Date: 10/28/2015

Start Qty: 1.00

Required Qty: 1.00

D3672-3

Manufactured No

110 Each

1,359.000

32

32

DAS

26

9-89

D3672-3

DAS

38

9-89

Washer, Phenolic

Location

Loc Qty

Loc Code

FG

100

133083

52

134449

48

FP001

763

132639

263

137234

500

ST049

481

135831

481

ST055

15

129916

15

NAS1149C0432R

Purchased No

110 Each

1,116.000

32

32

DAS

26

9-89

NAS1149C0432R

DAS

38

9-89

WASHER

Location

Loc Qty

Loc Code

GA

889

m125807

428

m131467

461

ST271

227

m131467

227

D3672-9

Manufactured No

110 Each

863.0000

8

8

DAS

26

9-89

D3672-9

DAS

38

9-89

Washer

Location

Loc Qty

Loc Code

ST049

333

114963

333

t064a

530

133084

530

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Work Order ID: 137585

137585

Parent Item: D412-742-013

D412-742-013

Parent Item Name: Skidtube Fits LH or RH High Gear, DART (Apical) Tri-Bag Float Compatible

Start Date: 10/7/2015

Required Date: 10/28/2015

Start Qty: 1.00

Required Qty: 1.00

NAS1149C0632R

Purchased No

110 Each

55.0000 8 8

NAS1149C0632R

WASHER

DAS
26
9-89

**

9-89

DAS
26
9-89

Location

Loc Qty

Loc Code

ST271

55

M128812

55

D3672-11

Manufactured No

110 Each

678.0000 8 8

D3672-11

Washer

DAS
38
9-89

**

DAS
26
9-89

Location

Loc Qty

Loc Code

FG

10

77483

10

ST049

158

121544

158

ST064A

510

133082

510

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DAS
26
9-89

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Work Order ID: 137585

137585

Parent Item: D412-742-013

D412-742-013

Parent Item Name: Skidtube Fits LH or RH High Gear, DART (Apical) Tri-Bag Float Compatible

Start Date: 10/7/2015

Required Date: 10/28/2015

Start Qty: 1.00

Required Qty: 1.00

MS21043-4

Purchased

No

110

Each

1,114.000

29

29

MS21043-4

Nut

DAS
38
9-89

**

DAS
28
9-89

Location

Loc Qty

Loc Code

CCK004

300

m133316

300

CCK007

300

m132803

300

FG

40

104603

40

GA

101

m128798

101

ST304

373

m128818

39

m131697

9

m132382

4

m133031

171

m133134

150

29x

D3403-3

Manufactured

No

110

Each

50.0000

8

8

D3403-3

Bushing

DAS
38
9-89

**

DAS
28
9-89

Location

Loc Qty

Loc Code

ST034

42

134967

42

ST037

8

127939

8

5x

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Work Order ID: 137585

137585

Parent Item: D412-742-013

D412-742-013

Parent Item Name: Skidtube Fits LH or RH High Gear, DART (Apical) Tri-Bag Float Compatible

Start Date: 10/7/2015

Required Date: 10/28/2015

Start Qty: 1.00

Required Qty: 1.00

D3405-041

Manufactured No

110

Each

11.0000

1

1

D3405-041

Gh Lug

DAS
38
9-89

**

136520

DAS
28
9-89

Location

Loc Qty

Loc Code

st529

11

119182

7

135472

4

D3405-043

Manufactured No

110

Each

15.0000

1

1

D3405-043

Gh Lug

DAS
38
9-89

**

136510

DAS
28
9-89

Location

Loc Qty

Loc Code

st529

7

135468

3

136515

4

ST531

8

119183

8

AN4C7A

Purchased No

110

Each

52.0000

4

4

AN4C7A

BOLT

DAS
38
9-89

**

DAS
28
9-89

Location

Loc Qty

Loc Code

ST345

52

m127363

52

D3407-041

Manufactured No

110

Each

6.0000

1

1

D3407-041

Tow Ring

DAS
38
9-89

**

136393

DAS
28
9-89

Location

Loc Qty

Loc Code

st530

4

134755

4

ST532

2

135382

2

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Work Order ID: 137585

137585

Parent Item: D412-742-013

D412-742-013

Parent Item Name: Skidtube Fits LH or RH High Gear, DART (Apical) Tri-Bag Float Compatible

Start Date: 10/7/2015

Required Date: 10/28/2015

Start Qty: 1.00

Required Qty: 1.00

D3417-3

DAS
38
9-89

Manufactured No

110

Each

29.0000

2

2

D3417-3

Washer

DAS
26
9-89

Location

Loc Qty

Loc Code

FG

7

33519

7

ST035

22

128432

22

D3456-1

DAS
38
9-89

Manufactured No

110

Each

147.0000

1

1

D3456-1

Washer

DAS
26
9-89

Location

Loc Qty

Loc Code

FG

7

25701

7

ST038

50

136922

50

ST038A

87

134407

37

135949

50

ST051A

3

128456

3

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Work Order ID: 137585

137585

Parent Item: D412-742-013

D412-742-013

Parent Item Name: Skidtube Fits LH or RH High Gear, DART (Apical) Tri-Bag Float Compatible

Start Date: 10/7/2015

Required Date: 10/28/2015

Start Qty: 1.00

Required Qty: 1.00

AN3C37A

Purchased

No

110

Each

477.0000

1

1

AN3C37A

BOLT

DAS
38
9-89

**

DAS
26
9-89

Location

Loc Qty

Loc Code

ST338a

476

131651

70

M128773

1

M129650

55

M131367

70

M131856

70

M132169

70

M132381

70

M132522

70

ST347

1

129687

1

AN3C40A

Purchased

No

110

Each

17.0000

1

1

AN3C40A

Bolt

DAS
38
9-89

**

DAS
26
9-89

Location

Loc Qty

Loc Code

FG

5

11442

5

ST347

12

m132717

12

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Work Order ID: 137585

137585

Parent Item: D412-742-013

D412-742-013

Parent Item Name: Skidtube Fits LH or RH High Gear, DART (Apical) Tri-Bag Float Compatible

Start Date: 10/7/2015

Required Date: 10/28/2015

Start Qty: 1.00

Required Qty: 1.00

AN3C41A

Purchased

No

110

Each

379.0000

1

1

AN3C41A

Bolt

DAS
38
9-89

**

DAS
26
9-89

Location

Loc Qty

Loc Code

FG

10

122843

5

124975

1

m130081

4

ST338a

292

131651

75

m131367

67

m132169

75

m132522

75

ST347

77

m131856

2

m132381

75

AN3C42A

Purchased

No

110

Each

76.0000

1

1

AN3C42A

Bolt

DAS
38
9-89

**

DAS
26
9-89

Location

Loc Qty

Loc Code

FG

5

121103

5

ST338a

52

m130485

3

m131856

10

m132381

9

m132522

10

m132674

10

m133091

10

ST346

19

m131854

9

m131855

10

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Shop Packet Print

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Picklist Print

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Work Order ID: 137585

137585

Parent Item: D412-742-013

D412-742-013

Parent Item Name: Skidtube Fits LH or RH High Gear, DART (Apical) Tri-Bag Float Compatible

Start Date: 10/7/2015

Required Date: 10/28/2015

Start Qty: 1.00

Required Qty: 1.00

AN3C43A

Purchased

No

110

Each

25.0000

4

4

AN3C43A

DAS
38
9-89

Bolt

**

DAS
26
9-89

Location

Loc Qty

Loc Code

FG	10	
120465	10	
ST346	15	
m132767	3	
m133011	12	

AN3C46A

Purchased

No

110

Each

182.0000

5

5

AN3C46A

DAS
38
9-89

Bolt

**

DAS
26
9-89

Location

Loc Qty

Loc Code

FG	10	
122843	10	
ST338a	71	
M132169	70	
M133090	1	
ST346	101	
131651	3	
M132522	34	
M133090	64	

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Picklist Print

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Work Order ID: 137585

137585

Parent Item: D412-742-013

D412-742-013

Parent Item Name: Skidtube Fits LH or RH High Gear, DART (Apical) Tri-Bag Float Compatible

Start Date: 10/7/2015

Required Date: 10/28/2015

Start Qty: 1.00

Required Qty: 1.00

NAS1149C0332R

Purchased

No

110

Each

5,748.000

26

26

NAS1149C0332R

WASHER

DAS
38
9-89

**

68-6
92
DAS
SVC

Location

Loc Qty

Loc Code

FP001

1004

m132930

1004

FP01

1861

m133284

1861

GA

441

m133284

441

ST271

2442

m133284

2442

26x

MS21043-3

Purchased

No

110

Each

814.0000

13

13

MS21043-3

Nut

DAS
38
9-89

**

68-6
92
DAS
SVC

Location

Loc Qty

Loc Code

FG

80

103691

80

FP001

11

m130673

11

GA

139

m130673

15

m131677

124

ST304

547

m131340

180

m133031

367

ST308

37

m132551

37

13x

OCT 20 2015

REFERENCE ONLY

DART AEROSPACE USA, INC.

IIN-D412-742

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(CONTINUED FROM PAGE 19)

Item	Qty -013	Qty -043	Part Number	Description
40	1		D2571	SADDLE, FWD OUTSIDE
41	1		D2572	SADDLE, FWD INSIDE
42	1		D2573	SADDLE, AFT OUTSIDE
43	1		D2574	SADDLE, AFT INSIDE
44	2		D2876	SADDLE SPACER
45	2		D2877	SADDLE SPACER
46A	8		D3403-1	BUSHING
46B	8		D3403-5	BUSHING
47A	4		D2747	SET SCREW
47B	2		D3533-1	SET SCREW
48	16		AN4C6A	BOLT
49A	4		AN4C52A	BOLT
49B	4		AN4C53A	BOLT
50	8		AN6C12A	BOLT
51A	32		D3672-3	WASHER (REPLACES NAS1515H4L)
51B	32		AN960C416L	WASHER
52A	8		D3672-9	WASHER (REPLACES NAS1515H6L)
52B	8		AN960C616L	WASHER
53	8		D3672-11	WASHER (REPLACES NAS1515H7L)
54	24		MS21043-4	NUT
55	4		AN4C7A	BOLT
56	2		D3591-1	BUSHING
60	8		D3403-3	BUSHING
61	1		D3405-041	GHW LUG
62	1		D3405-043	GHW LUG
63	4		AN4C47A	BOLT
64	4		MS21043-4	NUT
70	1		D3407-041	TOW RING
71	2		D3417-3	WASHER
72	1		MS21043-4	NUT
73	1		D3456-1	WASHER
91	1		AN3C37A	BOLT
92	1		AN3C40A	BOLT
93	1		AN3C41A	BOLT
94	1		AN3C42A	BOLT
95	4		AN3C43A	BOLT
97	5		AN3C46A	BOLT
99	26		AN960C10L	WASHER
100	13		MS21043-3	NUT

*DENOTES PART IS INCLUDED WITH D3391-043 ASSEMBLY ABOVE

**DENOTES THAT PART IS INCLUDED WITH ASSEMBLY ABOVE

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Revision: E

Date: 11.10.19

5.2 D412-742-013 (APICAL TRI-BAG) Float Skidtube Installation Parts List

Item	Qty -013	Qty -043	Part Number	Description
	X		D412-742-013	FLOAT SKIDTUBE INSTALLATION
	1	X	D412-742-043	FLOAT SKIDTUBE
		1	D3391-043	412 FLOAT SKIDTUBE
1		*24	*AN3C4A	*BOLT
3		*10	*AN3C6A	*BOLT
4		*4	*AN3C7A	*BOLT
5		*38	*AN960C10L	*WASHER
21		*1	*D4095-041	*WEARSHOE (REPLACES D3564-1)
22		*1	*D4095-043	*WEARSHOE (REPLACES D3564-3)
23		*1	*D4095-045	*WEARSHOE (REPLACES D3564-5)
10		*1	*D3391-021	*412 FORWARD TUBE
11		**1	**D3401-041	**TOW CAP
12A		**10	**AELS-1032-225	**INSERT (REPLACES NAS1330S3KB166)
13		**10	**AN3C4A	**BOLT
14A		*4	*D3672-1	*WASHER (REPLACES NAS1515H3L)
14B		**10	**AN960C10L	**WASHER
24		**1	**D4095-051	**WEARSHOE (REPLACES D3564-13)
20		*1	*D3391-023	*412 MID TUBE
28		**20	**AELS-1032-130	**INSERT (REPLACES NAS1330S3KB116)
30		*1	*D3391-025	*412 AFT TUBE
25		**1	*D4095-049	**WEARPAD (REPLACES D3537-1)
26		**1	*D4095-047	**WEARPAD (REPLACES D3537-7)
31		**1	**D2646	**AFT CAP
32		**14	**AELS-1032-130	**INSERT
36		**8	**AELS-1032-225	**INSERT (REPLACES NAS1330S3KB366)
37A		**6	**AN3C4A	**BOLT
37B		*4	*AN3C5A	*BOLT
38A		*2	*D3672-1	*WASHER (REPLACES NAS1515H3L)
38B		**10	**AN960C10L	**WASHER

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OFFSHORE

Work Order ID 137585

137585

Page 1

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Item ID: D412-742-013
Revision ID:
Item Name: Skidtube Fits LH or RH High Gear, DART (Apical) Tri-Bag Float Compatible

Accept

N900040100

Setup Start *NS1*

Stop *NS2*

Start Date: 10/7/2015 Start Qty: 1.00 *1*
Required Date: 10/28/2015 Req'd Qty: 1.00 *1*

Cust Item ID:
Customer:

Reference:

Approvals: Process Plan: SA Date: 20151007 Tooling: _____ Date: _____
QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Run Start *NR1*
Stop *NR2*

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Revision Nbr								
IIN D412-742	E	<u>SA</u>							
100	Document Control	0.00							
100	DOCUMENT CONTROL								
DC	Memo	0.00							
Doc.Control -USB or Paperwork	Photocopy bluefile and create labels per PPP D412-742-013	CHG007							
110	Pick Kit	0.00							
110									
Packaging	Memo	0.00							
Packaging									
120	QC4- 100% Inspect kits for completeness	0.00							
120									
QC	Memo	0.00							
Quality Control									

MS OCT 15 2015